FIREFIGHTING EQUIPMENT

User manual

KATZ

DOC 1973 EN Rev.A - 10/09/13

POK SAS - ZI Les Guignons - 10400 Nogent-sur-Seine - FRANCE
Tel : 03 25 39 84 78 - Fax : 03 25 39 84 90 - Email : info@pok.fr - Web : www.pok.fr

DESCRIPTION	VALUE
Product type	Monitor
Product	Portable monitor "KATZ"
Product reference concerned by the manual	Ref. : 31989 Ref. 31989 and 32741 used for all visuals
Documentation ref.	1973
Language	English
Creation date	10/09/2013
Modification date	10/09/2013
Review follow up	Rev. A - 10/09/13 : - Original file

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• Introduction

Please read this manual before using the equipment.

Use, maintenance, or any other operation of the equipment must be done by staff trained for the use of this equipment and aware of the safety rules.

While using the monitor (use, maintenance, installation, ...) it is important to wear a personal protective equipment.

• Dismantling and warranty

This equipment has a warranty of 1 year for any fabrication default, excepted special written agreement.

The exploded view and bill of materials are not a dismantling manual.

Any dismantling or maintenance operation of the device must be done with water supply turned off.

Dismantling and/or modification of the equipment outside POK SAS factory is allowed only in compliance with procedure described in this manual, and therefore does not affect the warranty.

If the equipment is repaired, the spare parts must be supplied by POK SAS. If not, technical characteristics listed in this document won't be valid, the warranty will void and POK SAS responsability will not apply.

If maintenance operation damage parts, the warranty may not work if the procedure has not been carried out properly.

Although this is not explicitly stated in instructions, use and wear of protective equipment are obligatory during maintenance operation. POK SAS cannot be responsible of any damage or accident which may occur during the dismantling. If this obligation is not met, please refer to the tools instructions guides for more details.

Only POK SAS can ensure proper and safe functioning of the equipment. Therefore POK SAS will not be liable for any damage or accident caused by dismantling of the equipment outside its workshop.

Do not modify the equipment, it may not be working or be dangerous for use.

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• Use

Please respect the technical limits of the equipment.

The apparatus can not be used if any part is missing or damaged.

During its use, the montior must be securetly fastened to a fix ground anchorage with supplied strap.
Failure to follow these instructions could result in serious injury and/or damage the monitor.
(reaction force : about 250 Kgs for 3000 l/min at 7 bar to the exit).

Never stand in front of the monitor or point somebody with monitor. It can cause death.

Do not point with monitor at a aera between the pump and the monitor's inlet.

Do not exceed the maximum setting of 85° and minimum of 35° for vertical range.

Please note that use of the monitor may damage the tarjet. Ensure the aera is secure before use.

It is important to know and respect the security rules regarding your operating environnement.

It is recommanded not to use the monitor with emulsifier.

After use with emulsifier, clean the monitor with clean water under pressure to remove impurities from the oscillation mechanism.

The recommended work pressure is 7 bar (100 PSI). The efficiency over this pressure is not guarantee.

Do not use the monitor over 16 bar (230 PSI) when the oscillation is off and over 12 bar (170 PSI) when the oscillation is on. The equipment can be damaged over these pressures.

Unrespect of safety instructions and use of the monitor over the recommended pressure can be dangerous and even cause death.

POK SAS is not responsible of any accident that may occur during operation caused by improper use or non-compliance with safety requirements.

• Limits of use

POK SAS guarantee monitor for a maximum operating pressure of 16 bar (230 PSI) when the oscillation mechanism is off, 12 bar (170 PSI) when it is on .
POK SAS guarantee monitor for a maximum test pressure of 25,5 bar (370 PSI) in closed position.
Without POK written authorization, warranty will void if the equipment is used with pressure over the specified one in this document.

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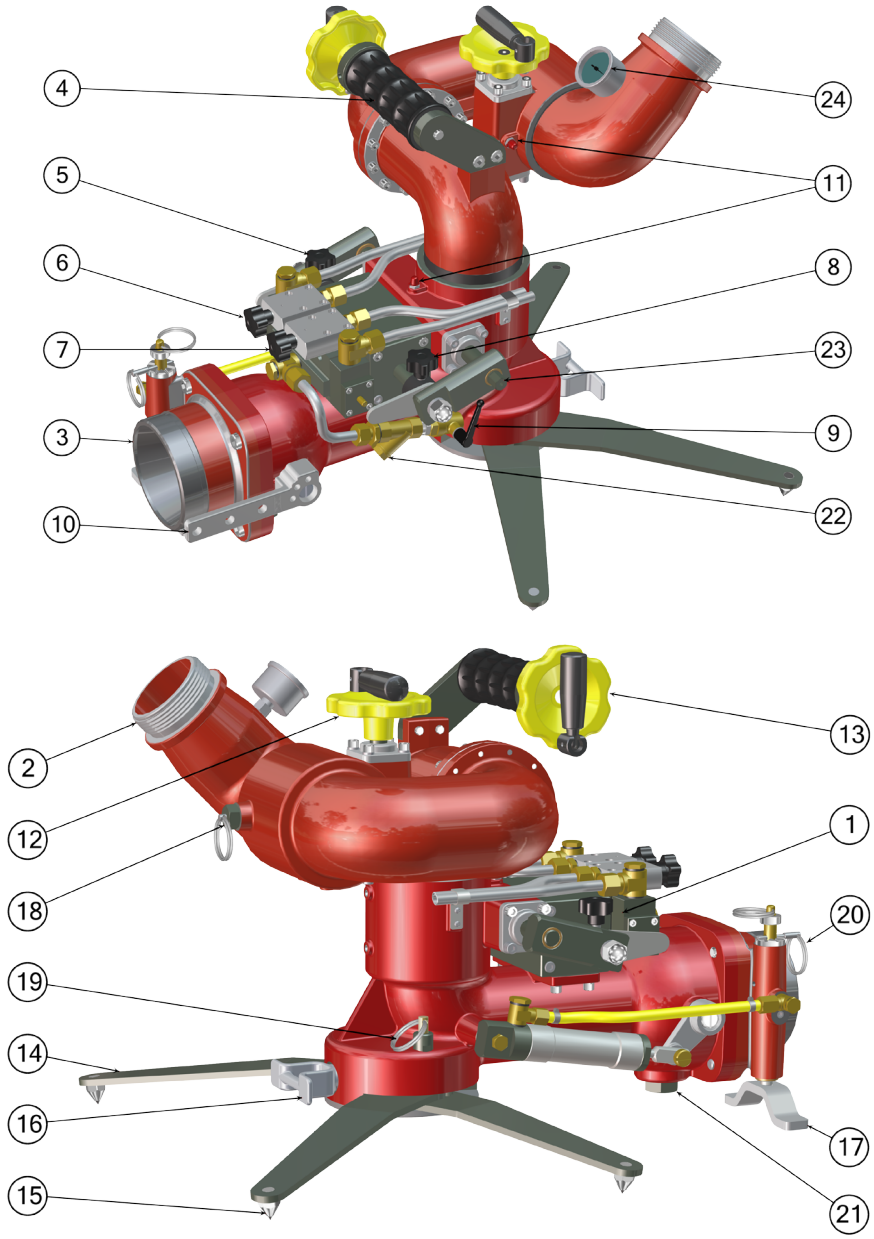
Presentation

Main view



MARK	DESIGNATION
1	Body with oscillation mechanism
2	Outlet FM 2.5" NH **Note :** a coupling can be supplied on request, consult our catalog for more information about coupling.
3	Inlet flange FM G 4" B **Note :** a coupling can be supplied on request, consult our catalog for more information about coupling.
4	Carrying handle
5	Left travel adjustment
6	Left speed adjustment
7	Right speed adjustment
8	Right travel adjustment
9	Oscillation mechanism valve
10	Shutoff handle
11	Greasers

MARK	DESIGNATION
12	Vertical adjustment handwheel
13	Horizontal adjustment mobile handwheel
14	Legs
15	Tungsten pin
16	Anchoring ring
17	Stand of safety mechanism
18	Vertical adjustment stopper
19	Leg unlock pin
20	Safety mechanism pin
21	Automatic drain
22	Drain filter
23	Horizontal adjustment axis
24	Pressure gauge

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• Construction

DESCRIPTION	VALUE
Body	• Aluminium alloy. • Coating : polyester.
leg pin	• Tungsten carbide
Pins and screws	• Stainless steel.

• Characteristics

DESCRIPTION	VALUE
Maximum flow rate	• 3000 l/min @ 7 bar (790 GPM @ 100 PSI)
Working pressure	• 16 bar (230 PSI)
Inlet	• G 4" B
Outlet	• 2,5" NH
Vertical range	• 0º to +85º
Horizontal range	• 360º
Automatic oscillation	• -25º to +25º maximum
Removable pipe	• No
Safety	• Locking pin for legs • Locking pin for vertical adjustment • Anti-tip over mechanism

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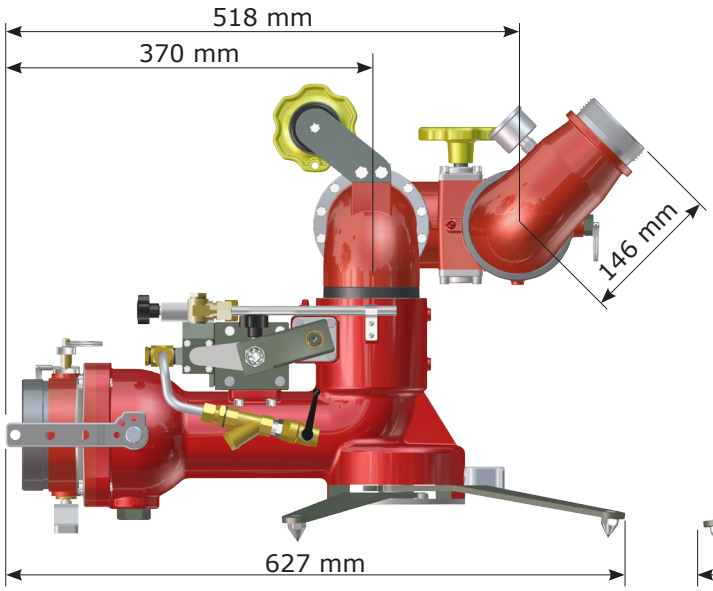
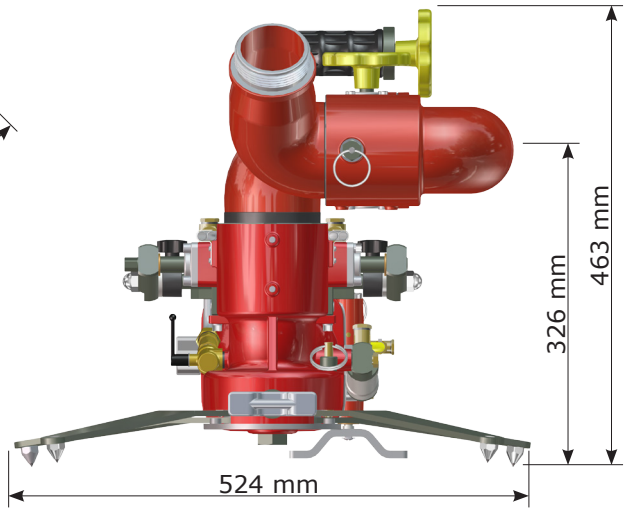
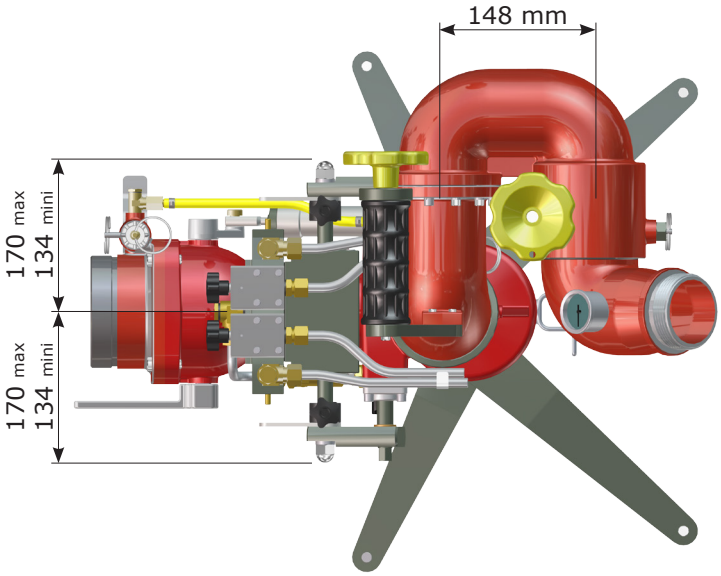
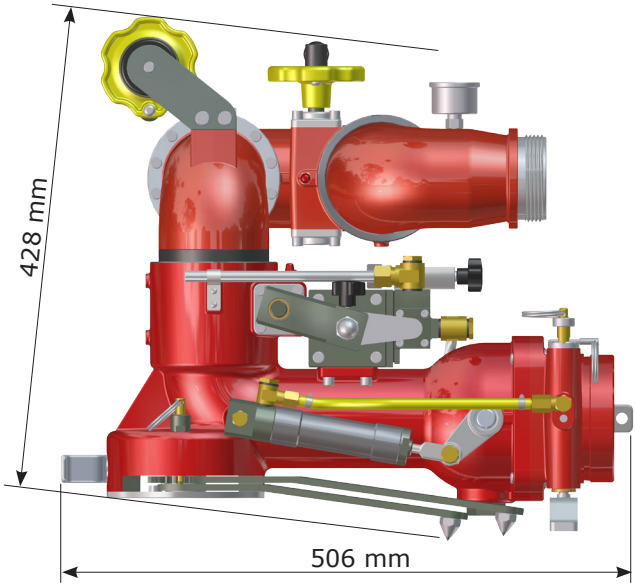
Presentation

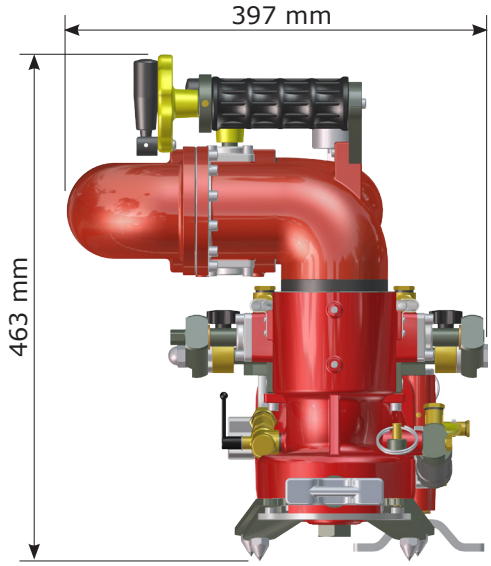
Overall dimensions











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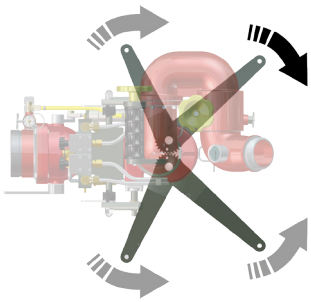
• Warning

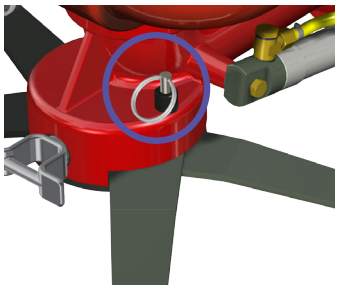
Read these operating instructions before use. The non-compliance with operating instructions may lead to injuries or may cause damage to the monitor.
The monitor is designed to operate with a 3000 l/min (790 GPM) maximum flow rate at 7 bar (100 PSI).

• Unfolding

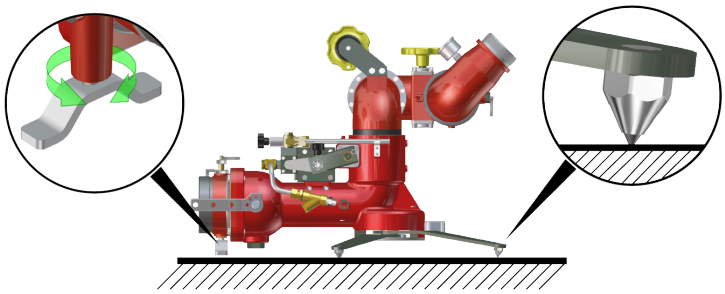
- 1 - Maintain the monitor with carrying handle and fold out retractable legs. Pull a front leg to open others until it locks into place (mark A).
- 2 - Make sure that the safety pin is locked (mark B).
- 3 - Place the unit on a firm and flat ground, each leg's pin should touch the ground (mark C).
- 4 - Screw or unscrew the safety mechanism's stand to adjust to the ground level (mark C).



Mark A



Mark B



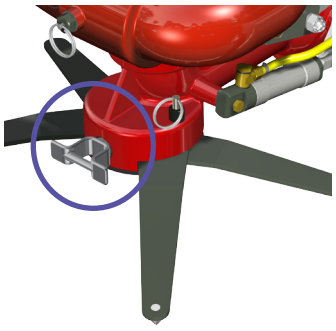
Mark C

Note : leg's pin must lay on solid and firm ground. The monitor can slide, slip or even take-off in case of soft ground (sand, mud, gravel, etc).

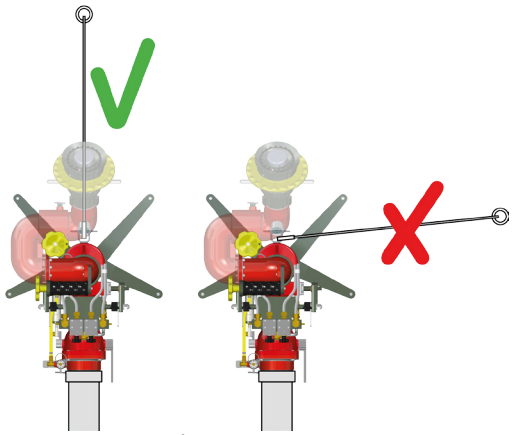
/!\ For your safety, fasten the monitor to a secure support with the provided strap /!

• Anchorage

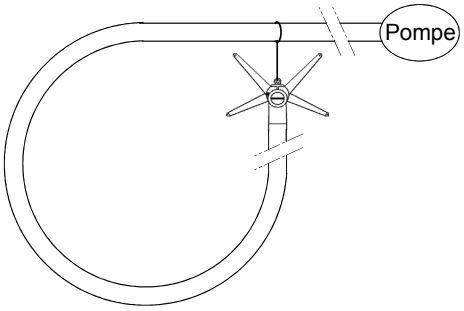
The montior must be securetly fastened to a fix ground anchorage (a drived stake, a solid anchorage on the ground or the supply hose).
- 1 - Fasten the supplied strap to the anchorage ring (mark A).
- 2 - The monitor, the target and the anchorage must be on the same straight line(mark B).
- 3 - The monitor can be fastened to supply hose if you haven't available base to secure it (mark C)



Mark A



Mark B



Mark C

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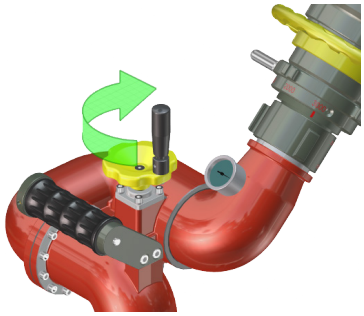
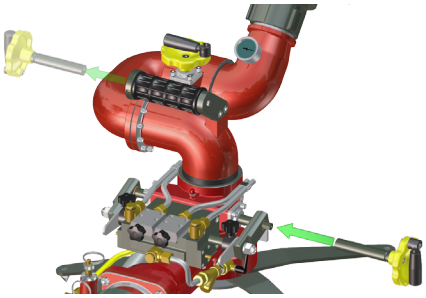
• Initialization

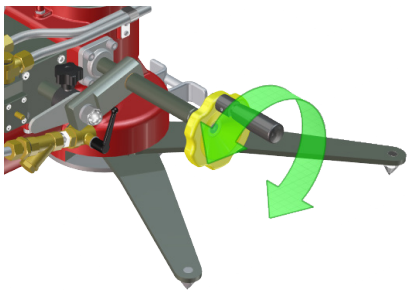
Respect the following instructions before connecting the monitor to water supply.
- 1 - Point up the outlet pipe by turning the vertical adjustment handwheel untill the "CLICK" (mark A).
- 2 - Set up the horizontal adjustment handwheel (mark B) and adjust the outlet pipe on horizontal range (mark C).



Mark A

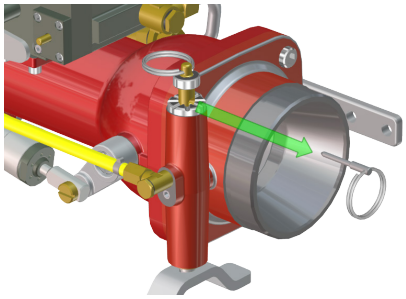


Mark B

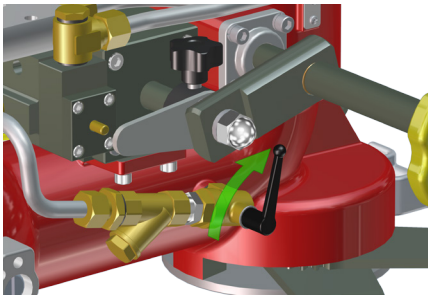


Mark C

- 3 - Remove the safety pin of the anti-tip over mechanism (Mark D).
- 4 - Turn off the oscillation mechanism valve (vertical position - Mark E).



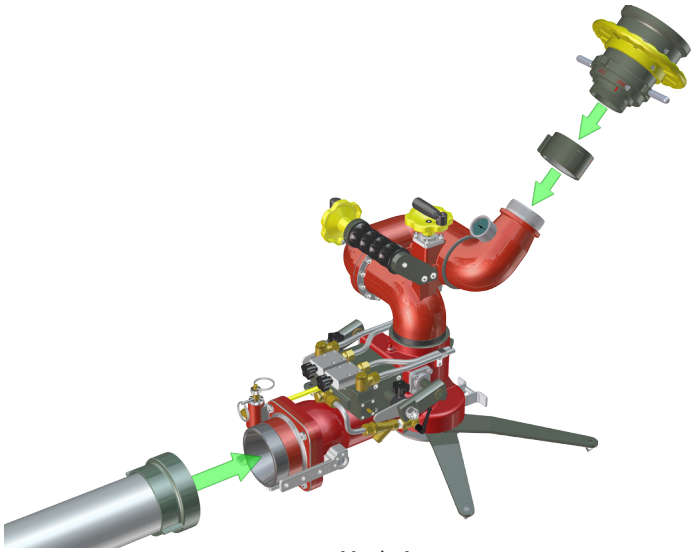
Mark D



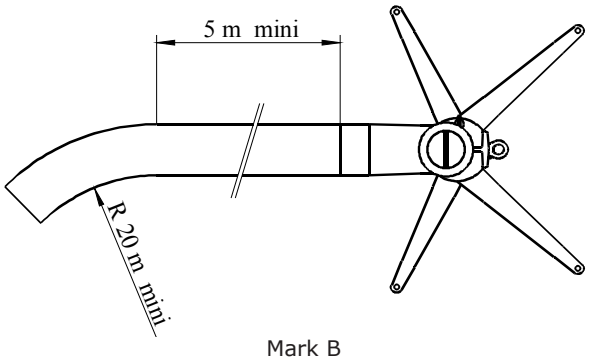
Mark E

• Connecting

- 1 - Connect the diffuser or the branchpipe (not supplied) to the outlet coupling (mark A).
- 2 - Connect the supply hose to the inlet coupling. Please, make sure you have at least 5 meters of straight hose at the monitor's inlet (mark B).



Mark A



Mark B

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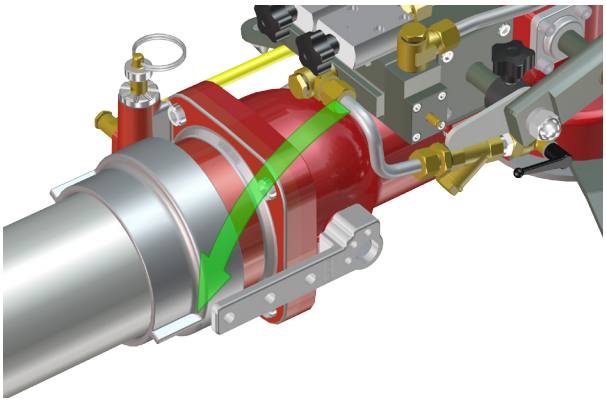
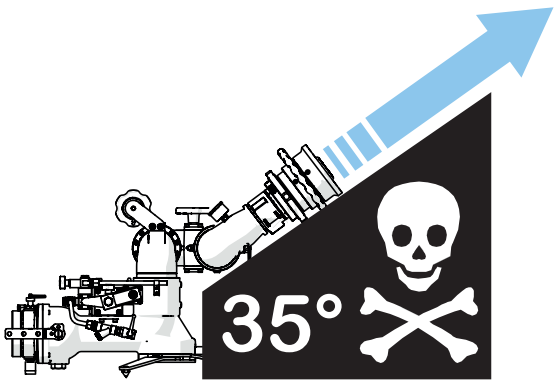
- Make sure the monitor is properly settled and pointed.

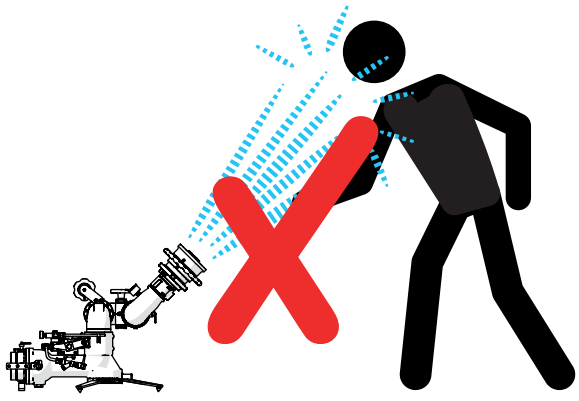
- Pump must be powerfull enough to obtain the requested flow rate with the recommended pressure.
- Open the valve to supply the monitor with water or foam solution.



Note : to obtain optimal performance, respect following values :
- maximum flow rate : 3000 l/min (790 GPM)
- working pressure : 7 bar (100 PSI)

/!\ Do not target someone with the monitor /!
While using a portable monitor, nerver exceed the maximum setting of 85° and minimum of 35° for vertical range.





Never target an area placed in the axis between the pump and the monitor inlet.
If your monitor is equiped with a nozzle which has a spread jet position, make sure the area around the monitor is not sensitive to important water projection, before using this position.

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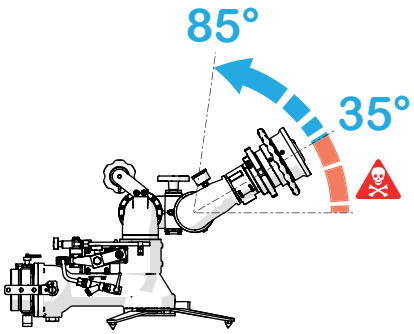
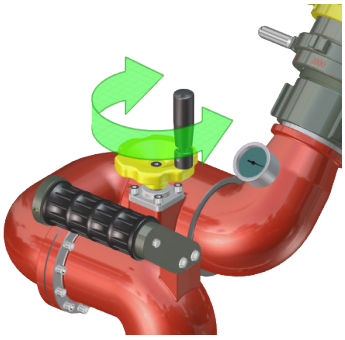
• Vertical position setting

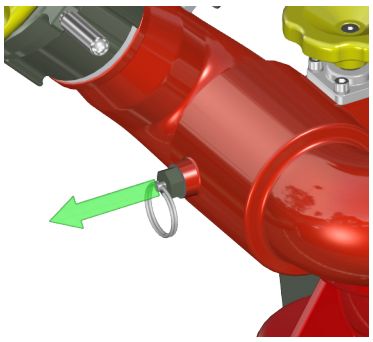
The vertical range for this monitor is from +85° to +35°. It is not recommanded to use the monitor with a adjustment below 35°.



Adjust the monitor by turning the adjustment handwheel (mark A). A safety pin stop the monitor when it reach 35°. Pull the safety pin to set the monitor below 35° (mark B).



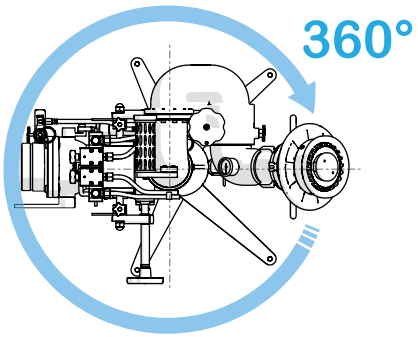
Mark A



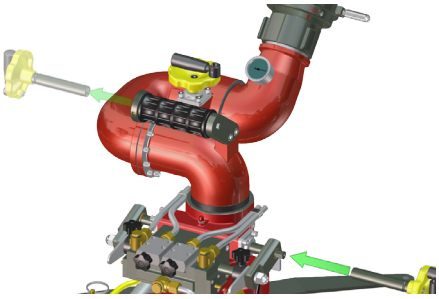
Mark B

• Horizontal position setting

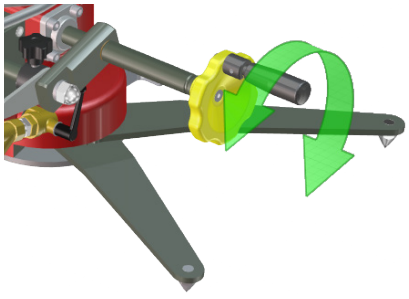
The horizontal range for this monitor is 360°.



- 1 - Set up the horizontal adjustment handwheel (mark A).
- 2 - Point the monitor to the desired direction by turning the adjustment handwheel (mark B).



Mark A



Mark B

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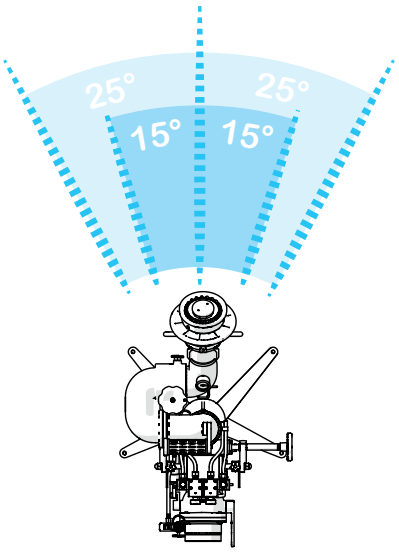
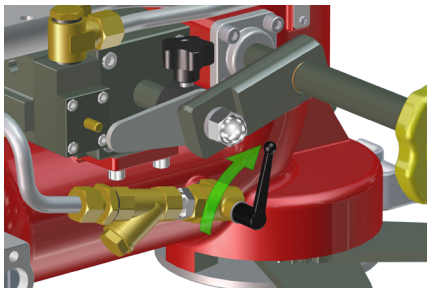
• Oscillation mechanism adjustment

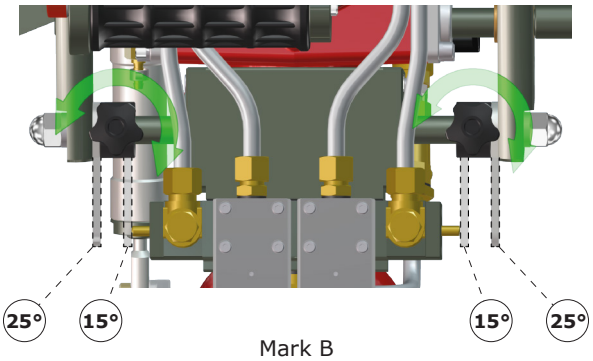
The following angles can be set : 15° and 25° for left side.
15° and 25° for right side.
Left and right side can be setted with different angles. Respect the following instructions to adjust the monitor.



- 1 - Prior to define the oscillation settings, turn off the oscillation mechanism valve (vertical position - Mark E).
- 2 - Adjust bump stop on the left and right sides by turning front knobs. Take care to screw knobs on correct holes, at 15° and 25° positions (mark B).

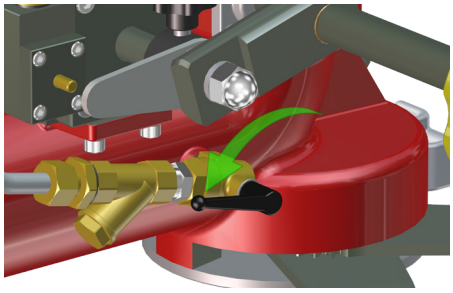


Mark A

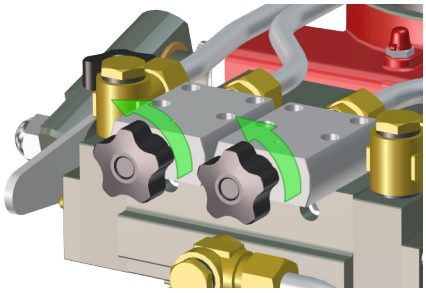


Mark B

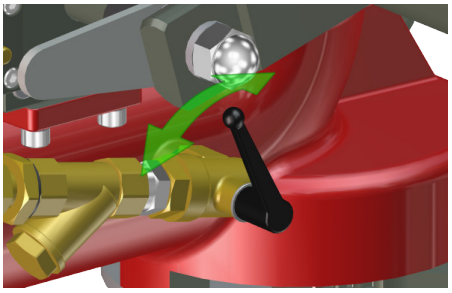
- 3 - Open the oscillation mechanism valve (Mark C).
- 4 - Adjust the speed by turning rear knobs (mark D). Left and right sides can be setted with different speeds.
- 5 - Turn off the oscillation mechanism valve to stop the automatic sweeping (mark E).



Mark C



Mark D



Mark E

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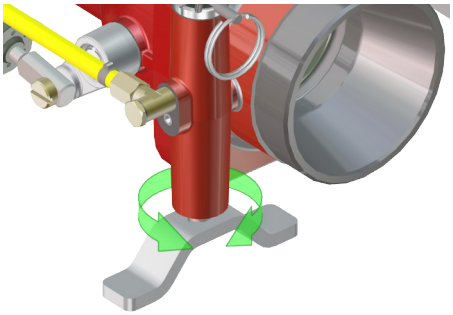
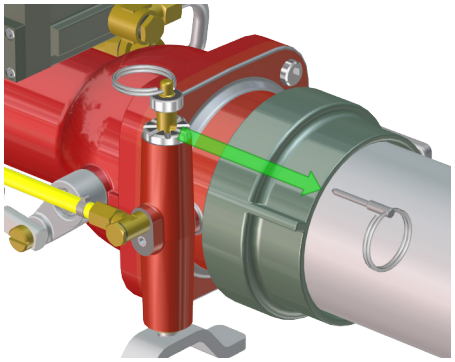
• "Anti-tip over" mechanism

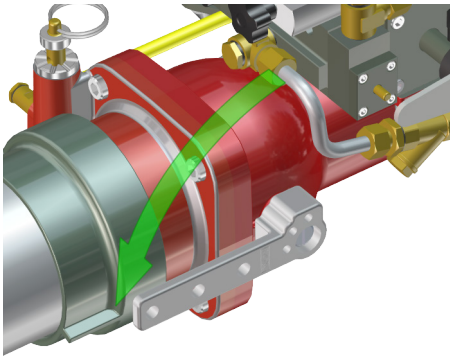
A safety feature will turn off the water supply as soon as the monitor lift from the ground.
Adjust the stand to the ground level when the monitor is in order (mark A). Remove the safety pin, this will activate the the "anti-tip over" mechanism (mark B). Lower the valve to supply water (mark C). The monitor must be plugged to a pump. If the safety pin is not removed, the "anti-tip over" mechanism won't work.



Mark A



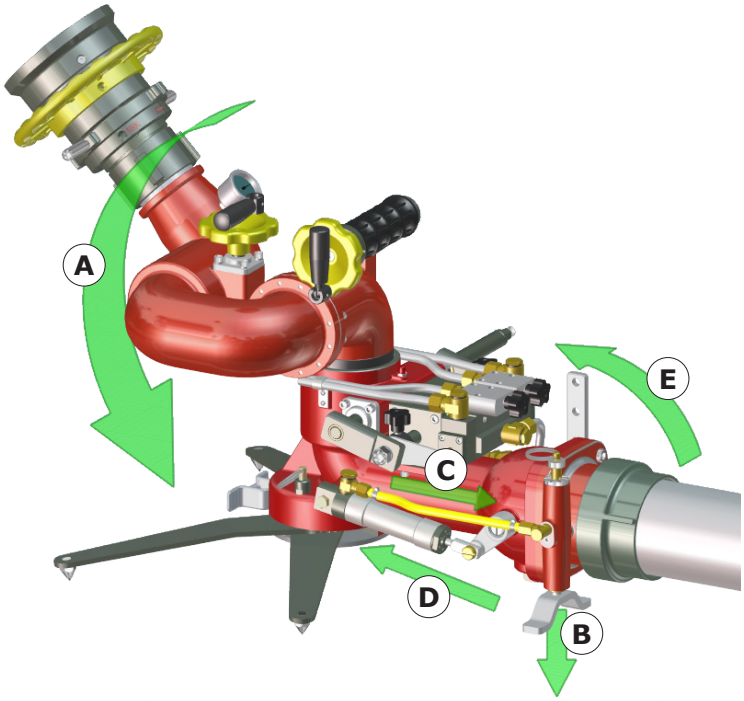
Mark B



Mark C

/!\ The monitor should not be used with the safety pin engaged /!

Operating principle : if the monitor lift from the ground (Rep. A), the stand getting away from the ground (Rep. B). By sliding downwards, the stand trigger the automatic valve (Rep. C) which activate a hydraulic jack (Rep. D). The hydraulic jack close smoothly the supply valve in return (Rep. E).



With main valve closed, the monitor is stopped. You can identify and solve the issue (for example : stream pointed downwards, ground too soft...). Set the monitor properly, arm the safety mechanism with the pump fully closed and open once again the main valve.

/!\ During the reset process, the supply pump must be shut off. Open the monitor's main valve before starting-up the pump /!

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• Storage conditions

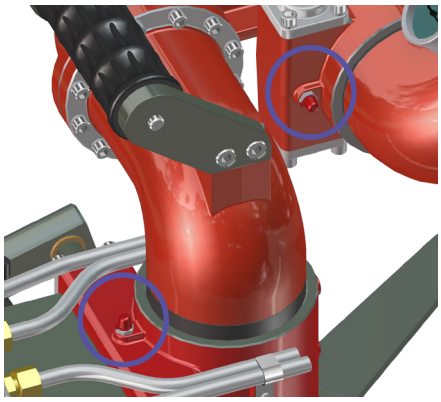
- 1 - Disconnect the supply pump and remove the hose.
- 2 - Move the outlet pipe left to right by hand to drain as much water possible.
- 3 - With main valve full open, tilt the monitor and drain as much water as possible. Drain water help to protect the monitor against frost and corrosion.

• Cleaning the monitor

To ensure the monitor will work well :
- 1 - Clean up the monitor with clear water after each use.
- 2 - If the monitor was used with charged water or sea water, make the monitor working with clear water to evacuate corrosive particles which could damaged inside components.
- 3 - Do not use corrosive product to clean up the monitor, it could damaged the gasket and create leakage.
- 4 - Try to move the mobile parts, no parts must be hard to move or be blocked.
- 5 - Visually control the monitor to detect leakage.

• Lubrification points

It is recommended to grease the monitor every 6 months by using a type EP 02 grease. Connect a grease gun to the grease nipples located close the swivelling parts. You can also on a regular basis clean leg's gears, hydraulic jack and all swivel parts and grease with a brush.



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• Restoring to operational

You must do this procedure before putting back your equipment into service :
- 1 - Make sure not parts are missing or damaged.
- 2 - Connect a hose at the inlet / connect to the flange.
- 3 - Put a cap with a air vent valve on the outlet thread.
- 4 - Test the monitor, increase slowly the pressure up to 16 bar (235 PSI) when using without oscillating device, to 12 bar when using with oscillating device, then look for eventual leakage.
- 5 - Put a nozzle on the outlet thread.
- 6 - Test the monitor in normal use conditions with a pressure of 7 bar. Make sure every parts move as they should, nothing must block. This must last 10 min.

If no problem have been encountered, the monitor may be put back into service.

• Spare parts

Some parts as gaskets may need to be changed more often depending on the use and storage conditions. Please contact our sales department to get information about after sales service, or to obtain spare parts. Use the bill of materials in this document to identify the spare parts you need.

Note : The serial number of the monitor may be required to know your eligibility to warranty.

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/!\ WARNING /!
Maintenance operation of the device must be done with water supply turn off and system draine.

• Changing the gasket of outlet

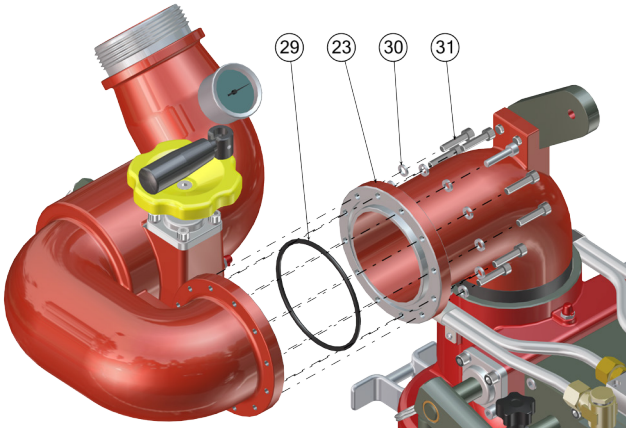
1 - Unscrew 12 screws (mark. 31)

2 - Separate the outlet from the body.

3 - Remove the O'ring (mark 29) and replace by a new one.

4 - Grease the gasket before installing.

5 - Reassemble all parts in reverse order. The screws must be glued (Loctite 243) and tightened in a crooswise.



MARK	QTY	DESCRIPTION	REF
23	1	Swivel pipe	25495
29	1	Gasket Ø89 x Ø4	-
30	12	Washer W6	-
31	12	Screw CHC M 6-25	-

• Changing the gaskets of inlet flange

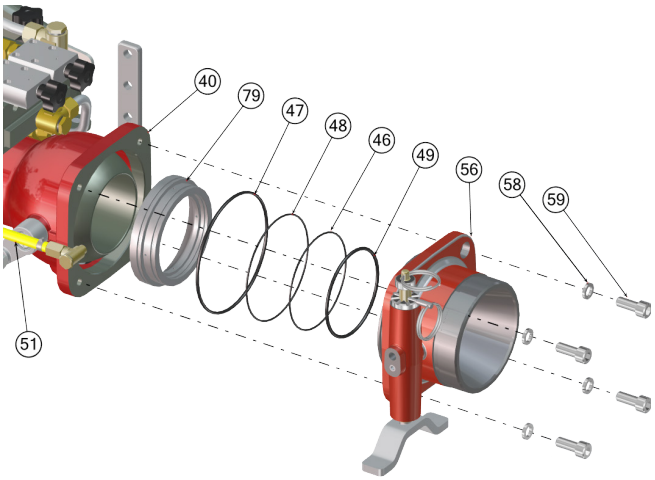
1 - Unscrew the banjo bolt from the inlet flange.

2 - Unscrew 4 screws (mark. 59).

3 - Remove the inlet flange, the ball valve's flat gasket and 4 O'ring. Take care not to scratch sealing surfaces.

4 - Grease the gasket before installing.

5 - Reassemble the parts in reverse order. The screws must be glued (Loctite 243) and tightened in a crooswise.



MARK	QTY	DESCRIPTION	REF
40	1	Body with oscillation mechanism	-
56	1	Inlet flange	27245
51	1	Flexible hose - length 200	-
49	1	Gasket Ø85,32 x Ø3,53	-
46	1	Gasket Ø86 x Ø2	-
48	1	Gasket Ø94 x Ø2	-
47	1	Gasket Ø102 x Ø2	-
58	1	Washer W10	-
59	1	Screw CHC M10	-
79	1	Ball valve's flat gasket	31997

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• Changing the safety mechanism's gaskets

1 - Remove the pin's ring (mark 52) and the safety pin (mark 54).

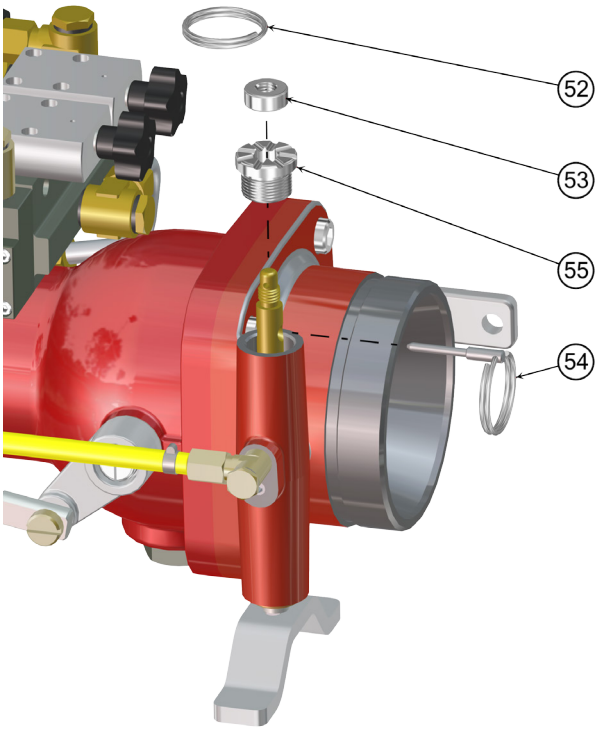
2 - Unscrew the stop (mark 53) from the safety axis.

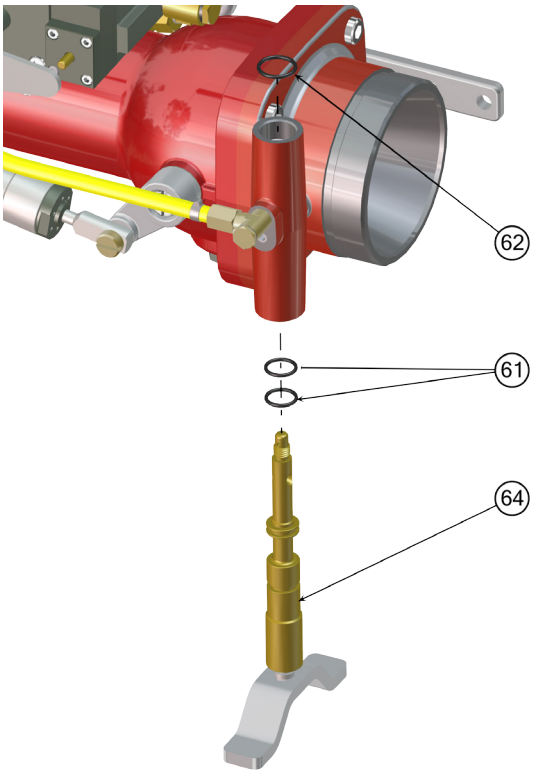
3 - Unscrew the spring's seat (mark 55) from the inlet flange.

4 - Slide downwards the safety axis (mark 64) and remove 2 O'rings (mark 61)

5 - Remove O'ring (mark 62) from the circular groove by using a thin screwdriver. Take care not to scratch sealing surfaces.

6 - Grease all gaskets and safety axis and reassemble all parts in reverse order. Take care all parts slide smoothly.





MARK	QTY	DESIGNATION	REF
52	1	Pin's ring	-
53	1	Stop	27254
54	1	Safety pin	-
55	1	Spring's seat	27249
61	2	Gasket Ø15,6 x 2,4	
62	1	Gasket Ø19,6 x 2.4	
64	1	Safety axis	

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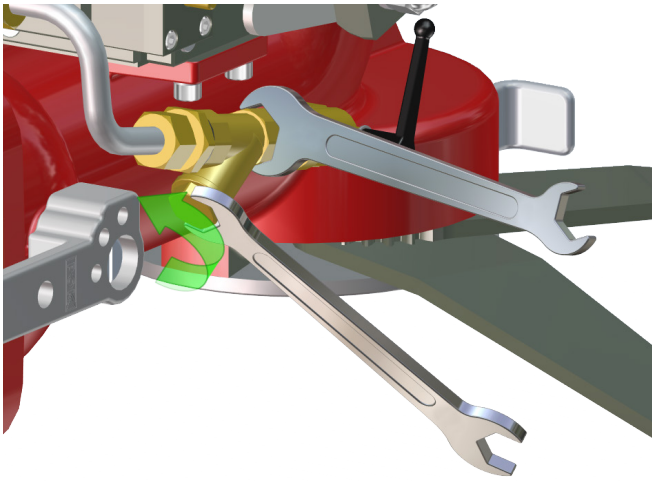
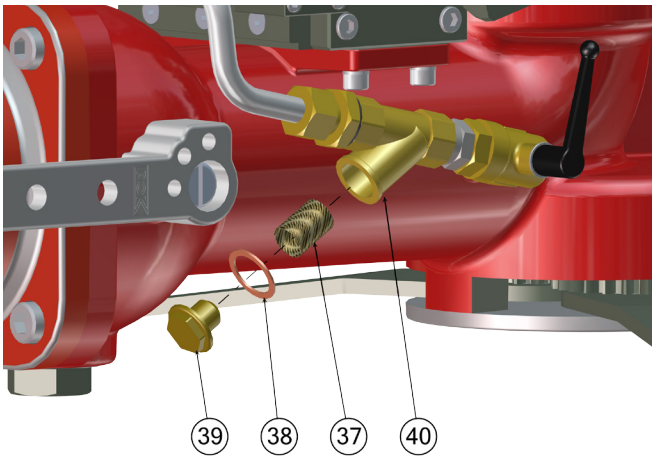
• Cleaning the filter of the oscillation mechanism

WARNING : Maintain the filter with a flat spanner (Ø 25) or a wrench for unscrew the drain plug (flat spanner Ø 20).



1 - Remove the filter and clean it with clean water.

2 - Reassemble all parts in reverse order, always with 2 flat spanner.



MARK	QTY	DESIGNATION	REF
40	1	Body with oscillation mechanism	-
37	1	Drain's strainer	-
38	1	Washer	-
39	1	Plug	-

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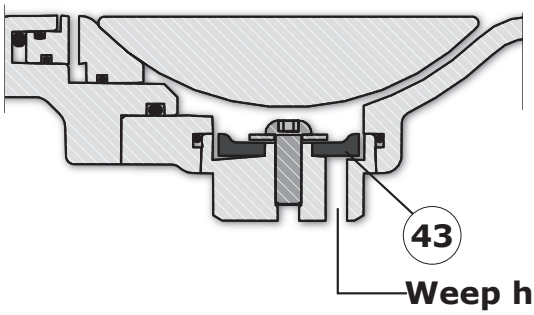
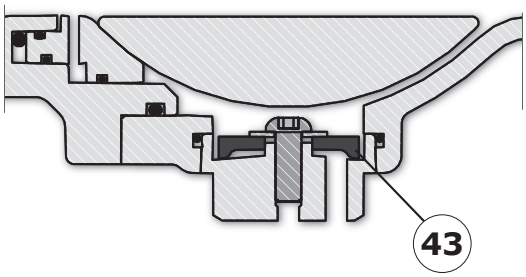
• Automatic drain

The automatic drain at the bottom of the monitor allow to drain most of the water after use. It starts draining when the pressure drops below 0,4 bar (5.8 PSI). It is a safety mechanism which protect the monitor against the effects of frost and corrosion by draining the water. Even if it is not recommended, this mechanism can be shut off by following steps below. Please periodically clean up the automatic drain following the procedure below.

Drain diaphragm **upwards** = automatic drain is **ON**



Drain diaphragm **downwards** = automatic drain is **OFF**

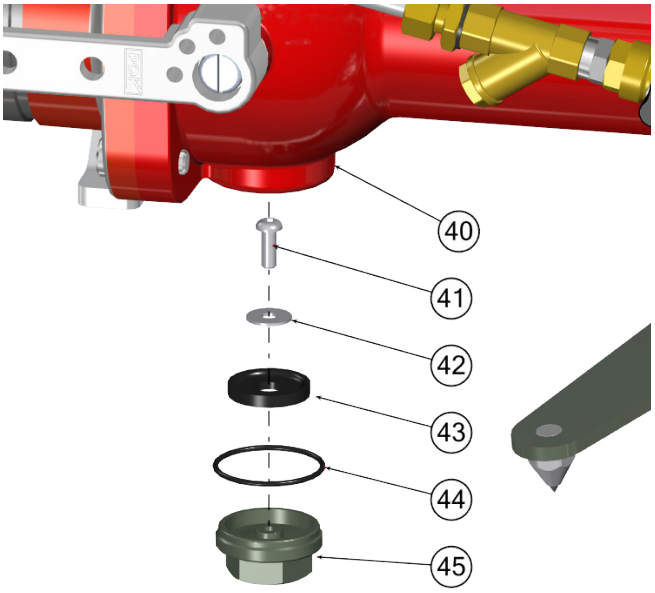


1 - Unscrew the drain's plug.

2 - Reverse the diaphragm(mark 43) for shut off the automatic drain.

3 - When necessary, replace used O'ring(mark 44).

4 - Reassemble the parts in reverse order. Glue the plug (Loctite 243)



MARK	QTY	DESIGNATION	REF
40	1	Body with oscillation mechanism	-
41	1	Screw CBHC M6	-
42	1	Washer L6	-
43	1	Automatic drain's diaphragm	-
44	1	Washer Ø40xØ2,5	-
45	1	Automatic drain's plug	-

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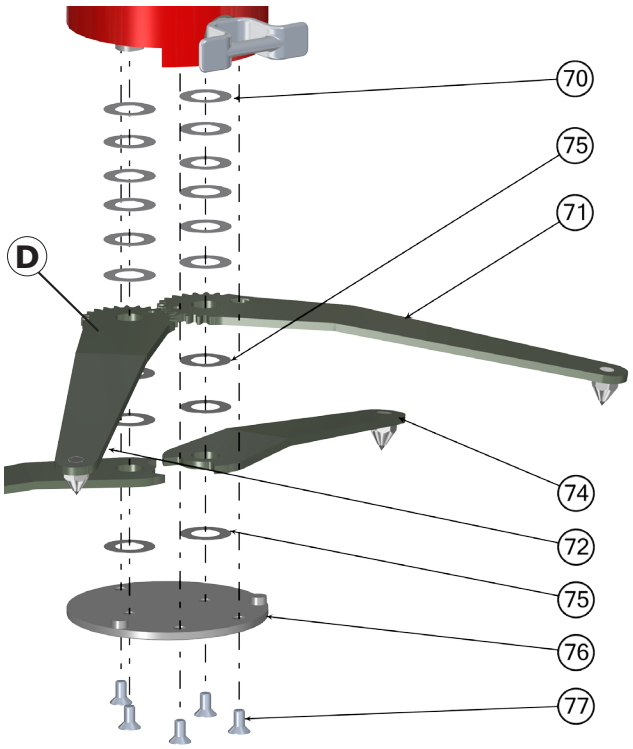
• Dismantling the legs

1 - Unscrew 5 screws (mark 77) and remove the bottom plate.

2 - Remove nylon washers, rear legs, nylon washers, front legs and spring washers. To avoid any confusion, the front right leg is engraved with letter "D" (mark A).

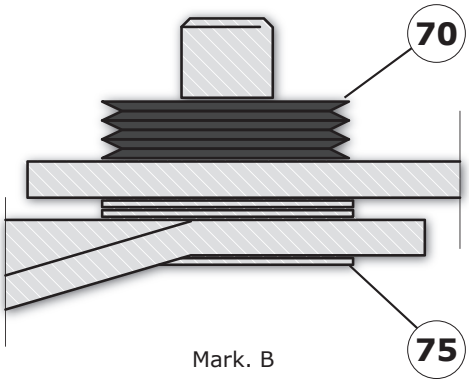
3 - Clean and grease all parts.

4 - Reassemble all parts in reverse order. Take care all parts slide smoothly and to reassemble spring washers following the picture (mark. B). The screws of the bottom plate must be glued (Loctite 243) and tightened in a crooswise.



Mark. A

MARK	QTY	DESIGNATION	REF
70	12	Spring washer CL 20,4 - 36 - 1,3	
71	1	Front left leg	-
72	1	Front right leg	-
74	1	Rear leg	-
76	1	Bottom plate	-
77	5	Screw FHC M 8-16	
75	6	Nylon washer	



Mark. B

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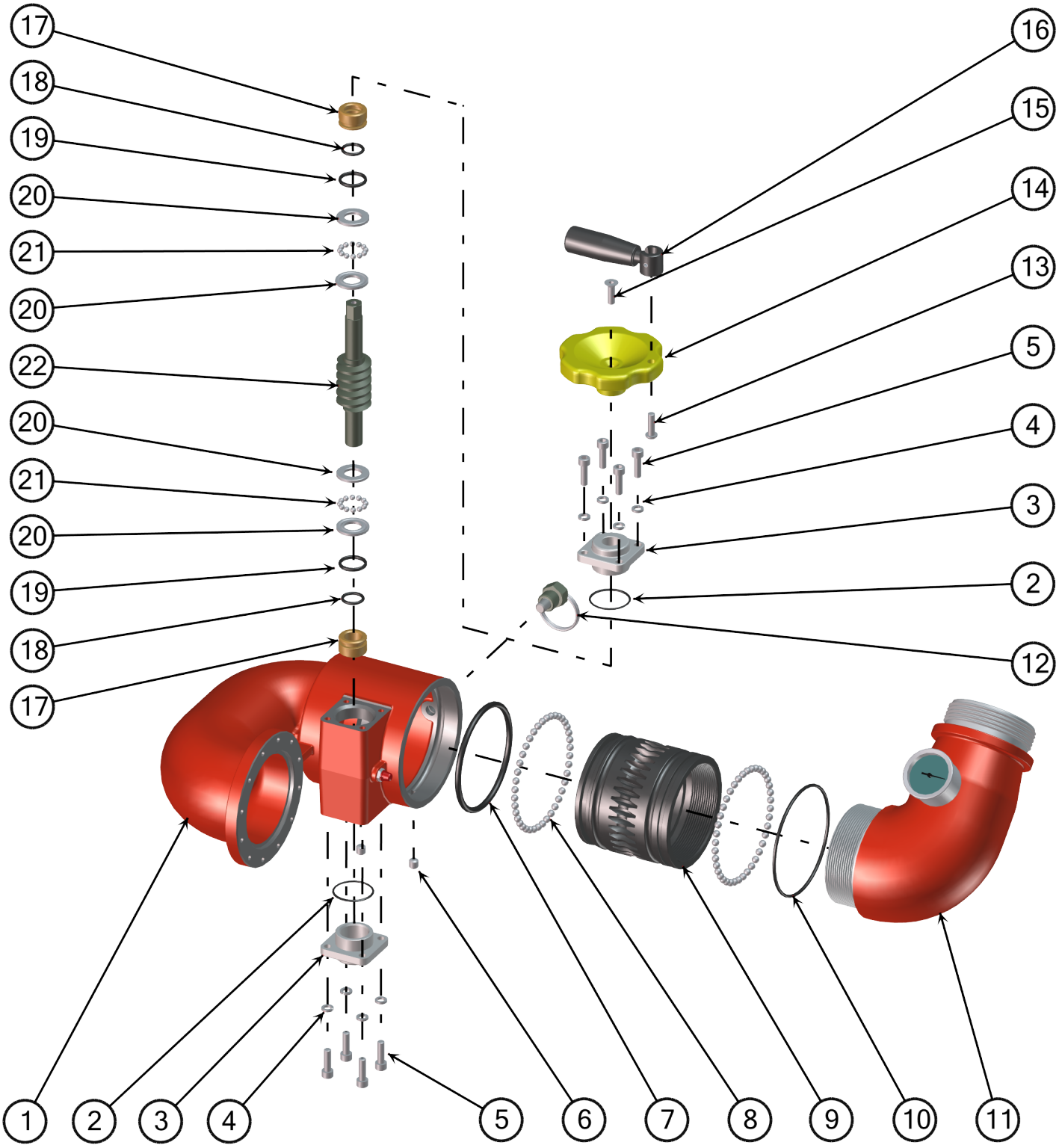
- **Exploded view**



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• Parts list

MARK	QTY	DESCRIPTION	REF
1	1	Middle pipe	24598
2	2	Gasket Ø 31,47 x Ø 1,78	-
3	2	Bearing	17785
4	8	Washer W6	-
5	8	Screw CHC M6-20	-
6	2	Screw STHC PL M8	-
7	1	O'ring N°43	-
8	80	Ball Ø 6,35	-
9	1	Cylindrical worm wheel	24597
10	1	Gasket Ø91x Ø3	-
11	1	Swivel pipe with pressure gauge	24600
12	1	Stopper	-
13	1	Screw CBHC M6	-
14	1	Handwheel Ø90	27419
15	1	Screw FHC M6	-
16	1	Folding handle	-
17	2	Worm's bearing	28353
18	2	O'ring N°12	-
19	2	O'ring N°14	-
20	4	Internal and external washer for ball bearing	-
21	2	Ball cage	-
22	1	Worm	24611

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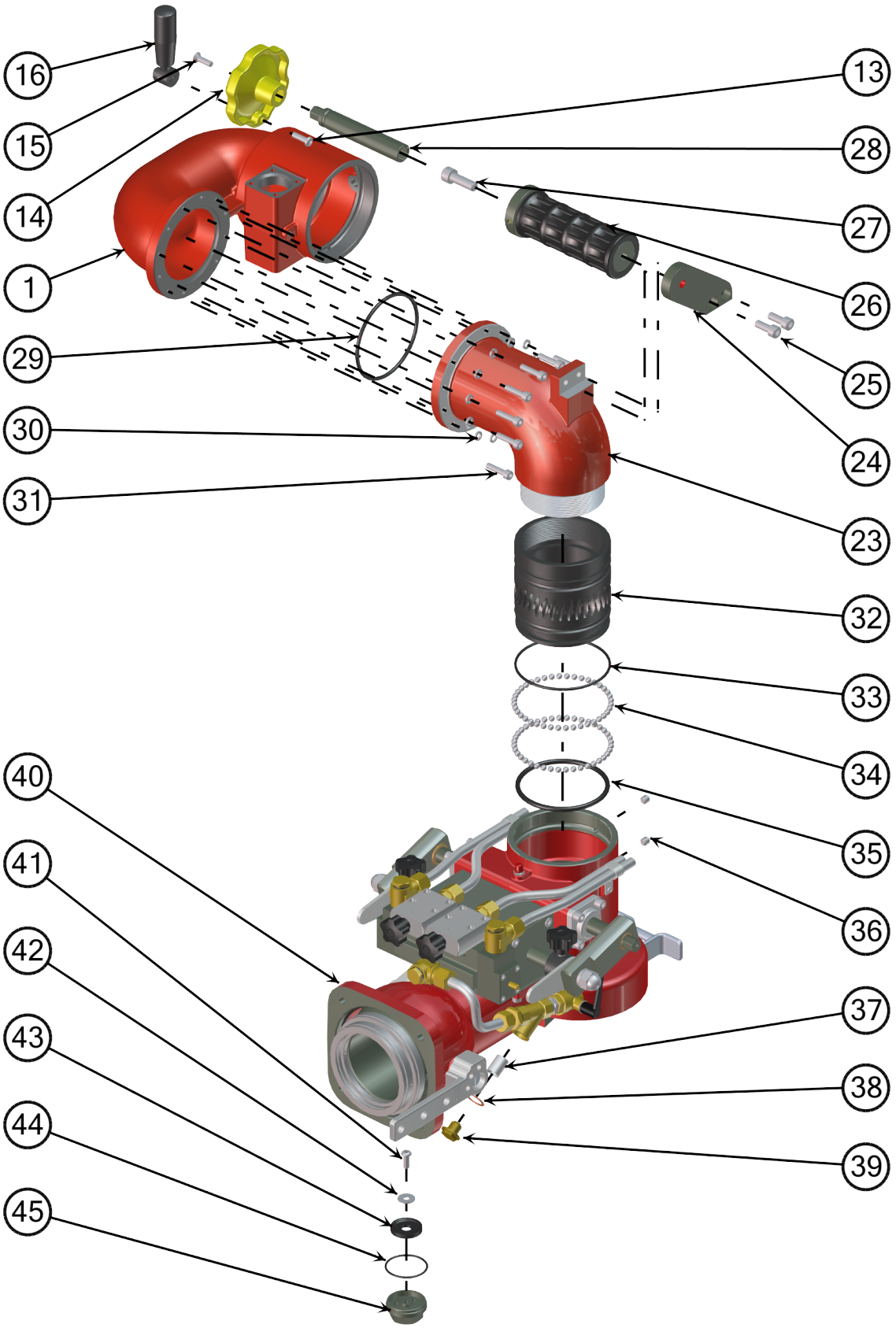
• Exploded view



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• Parts list

MARK	QTY	DESCRIPTION	REF
1	1	Middle pipe	24598
13	1	Screw CBHC M6	-
14	1	Handwheel Ø90	27419
15	1	Screw FHC M6	-
16	1	Folding handle	-
23	1	Swivel pipe	
24	1	Carrying handle's bracket	10925
25	2	Screw CHC M8	-
26	1	Carrying handle	-
27	1	Screw CHC M10	-
28	1	Handwheel's axis	33233
29	1	Gasket Ø89 x Ø4	-
30	12	Washer W6	-
31	12	Screw CHC M6	-
32	1	Cylindrical worm wheel	31999
33	1	Gasket Ø91x Ø3	-
34	80	Ball Ø 6,35	-
35	1	O'ring N°43	-
36	2	Screw STHC PL M8	-
37	1	Drain's strainer	-
38	1	Washer	-
39	1	Plug	-
40	1	Body with oscillation mechanism	-
41	1	Screw CBHC M6	-
42	1	Washer L6	-
43	1	Automatic drain's diaphragm	10843
44	1	Washer Ø40xØ2,5	-
45	1	Automatic drain's plug	10842

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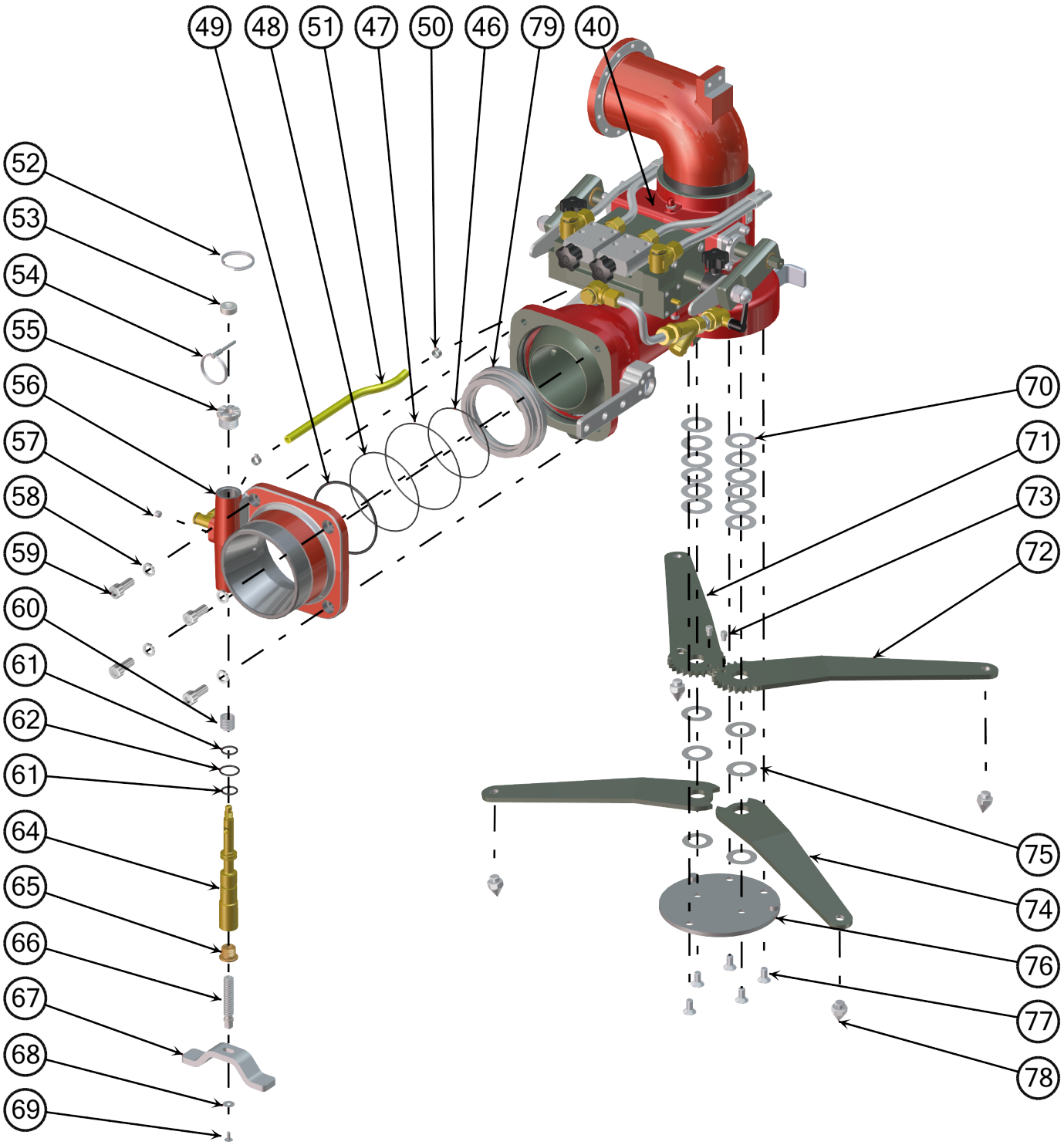
- **Exploded view**



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• Parts list

MARK	QTY	DESCRIPTION	REF
40	1	Body oscillation mechanism	-
46	1	Gasket Ø86 x Ø2	-
47	1	Gasket Ø102 x Ø2	-
48	1	Gasket Ø94 x Ø2	-
49	1	Gasket Ø85,32 x Ø3,53	-
50	2	Hose clamp	-
51	1	Flexible hose - length 200	-
52	1	Pin's ring	-
53	1	Stop	27254
54	1	Safety pin	-
55	1	Spring's seat	27249
56	1	Inlet flange	31995
57	1	Screw STHC PL M8	-
58	4	Washer W10	-
59	4	Screw CHC M10	-
60	1	Safety spring	27250
61	2	Gasket Ø15,6 x 2,4	-
62	1	Gasket Ø19,6 x 2.4	-
64	1	Safety axis	27251
65	1	Standing nut	27252
66	1	Foot's screw	27253
67	1	Foot	27256
68	1	Washer L4	-
69	1	Screw RLS M4	-
70	12	Spring washer CL 20,4 - 36 - 1,3	-
71	1	Front left leg	17972
72	1	Front right leg	17971
73	2	Driving pin	20213
74	2	Rear leg	17973
75	6	Nylon washer	10916
76	1	Bottom plate	10866
77	5	Screw FHC M 8-16	-
78	4	Leg's pin	17988
79	1	Ball valve's flat gasket	31997

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